Event

MPTS AJET
STK4501
POP DELIVERY
T-45

Mission

STRIKE
1.1 HOURS/X

ORM

STK 4501

- **OPERATIONAL REQUIREMENTS / LIMITATIONS**
  - **CREW REST/ CREW DAY / WORK WEEK**
  - **WARM-UP ELIGIBILITY**
  - **PREVIOUS FLIGHT COMPLETE?**
  - **IP CURRENCY**
  - **READ AND INITIAL**

- **HUMAN FACTORS**
  - **LIFE STRESSORS / EXTERNAL FACTORS/ PERSONAL PROBLEMS**
  - **MEDICAL STATUS**
    - **CREW DAY**
    - **CREW REST**
    - **NOURISHMENT**
    - **HYDRATION**

- **HAZARDS AND CONTROLS**
  - **ROUTINE**
  - **WEATHER**
    - **CURRENT OBSERVATIONS AND FORECASTS**
    - **CROSSWINDS**
    - **FUEL CONSIDERATIONS**

TTO

STK 4501

- **WHO WILL CALL A TTO?**

- **WHAT SITUATIONS WILL THE TTO BE CALLED?**
  - **SAFETY**
  - **CONFUSION**
  - **MISUNDERSTANDING**

- **IP RESPONSIBILITIES**
  - **RECOGNIZE THE NEED FOR A TTO**
  - **EXPLANATION / INSTRUCTION AS NECESSARY**
  - **DOCUMENTATION ON ATF**

- **WHEN AND HOW WILL TRAINING RESUME?**

SSR/DISCUSS ITEMS

STK 4501

- **SPECIAL SYLLABUS REQUIRMENTS:**
  - **NONE**

- **PREREQUISITES:**
  - **STK 4104**

- **DISCUSS ITEMS:**
  - **NATOPS/SOP/EP QOD**
  - **RACETRACK PATTERN**
  - **30-30 POP – MARINE STYLE**
  - **ABORT CRITERIA**

SYLLABUS NOTES

STK 4501

A. **STK 4501 – SHOULD BE FLOWN AS A POP EVENT, INTRODUCING POP PROCEDURES AND AN EXTENDED POP PATTERN AS DETAILED IN THE WEAPONS FTI; CCIP TARGET TRACKING SHALL BE USED.**

B. **A MINIMUM OF FOUR BOMBS DELIVERED IS REQUIRED TO COMPLETE THIS EVENT.**

ADMIN (CARD)

STK 4501

- **A/C - ATC C/S – CREW**
- **BRIEF / WALK / TAKEOFF / LAND TIMES**
- **ATC CLEARANCE / DD-175**
- **FUEL PLAN/LADDER**
- **LINE / T/O / ABORT / RPM**
- **COMM PLAN**

ADMIN

STK 4501

- **LAUNCH**
  - **WEATHER / NOTAMS / TFR / BASH**
  - **PREFLIGHT / START / TAXI**
  - **ITO**
  - **ENROUTE PROCEDURES**
  - **RADALT USAGE**

- **RTB**
  - **RECOVERY**
  - **DIVERTS**

SPECIAL PROCEDURES / CONSIDERATIONS

STK 4501

- Mach run same as 10 deg pattern.
- 15” break interval for 2 plane,12” for 3 plane, and 10” for 4 plane.
  - Flight Lead may adjust break point for Range constraints.
  - “1 Breaking, Pop Pattern”, and so forth.
- Trim for level flight.
- Recommend “Joker” and “Bingo” calls be made at any point while in the pattern due to fuel constraints.
- LOW ALTITUDE:
  - 1500’ AGL as Lost Interval Altitude from Abeam to Downwind.
  - 1500’ AGL as “Climb to Cope” altitude.
  - Use LAAT knowledge and brief small decent ROT to capture 700’AGL on downwind.
  - Master Arm Point: recommended point be once wings level in the dive; however, no earlier than wings level to the TGT at the “Approaching”.

CONDUCT

STK 4501

- **TIMS RESUME REVIEW**

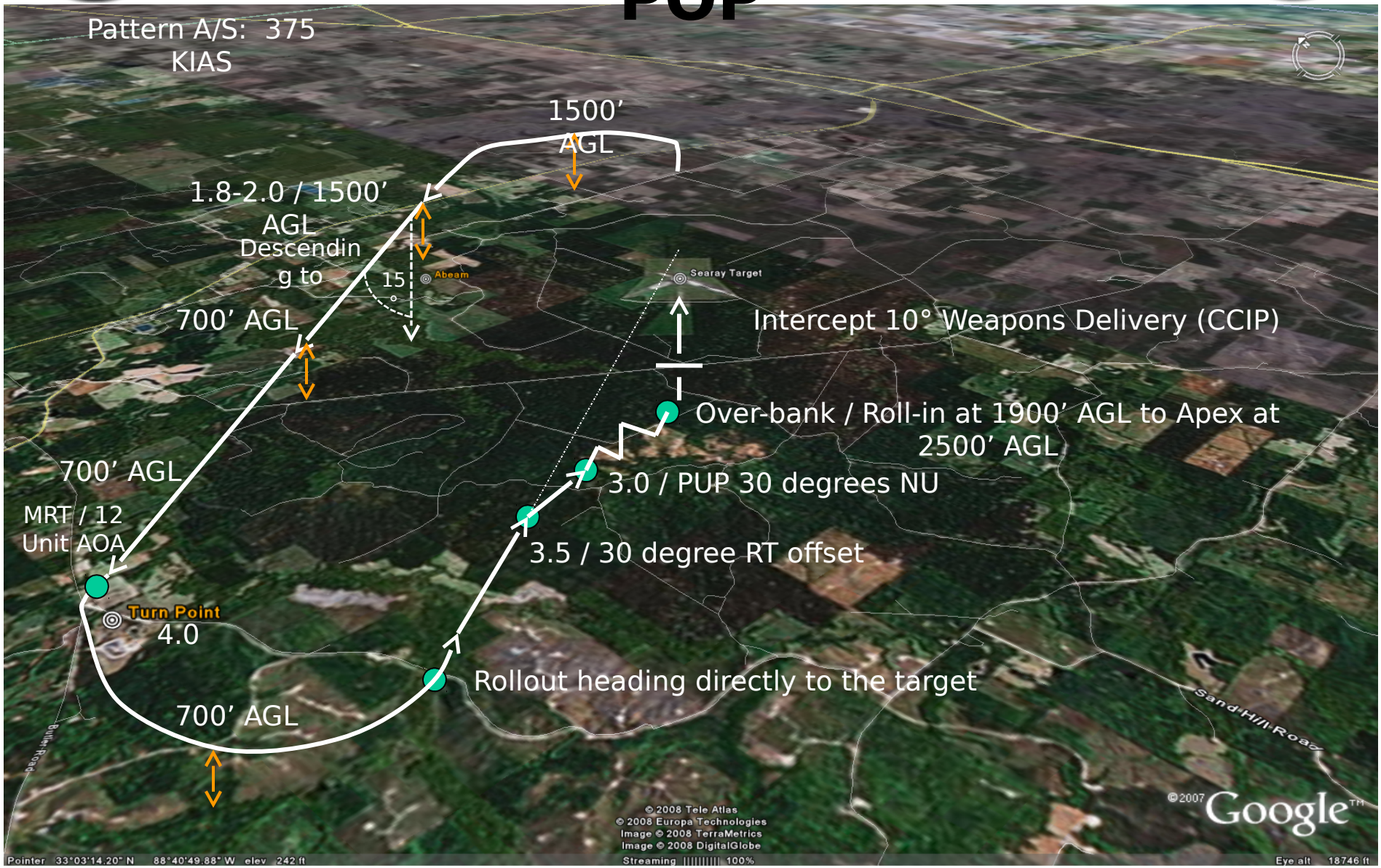
- **PRACTICE:**
  - **COMMUNICATIONS**
  - **GROUND OPS**
  - **FLIGHT ADMIN**
  - **TACTICAL ADMIN**
  - **TAKEOFF**
  - **RENDEZVOUS**
  - **FORMATION WING**
  - **MACH RUN**

CONDUCT

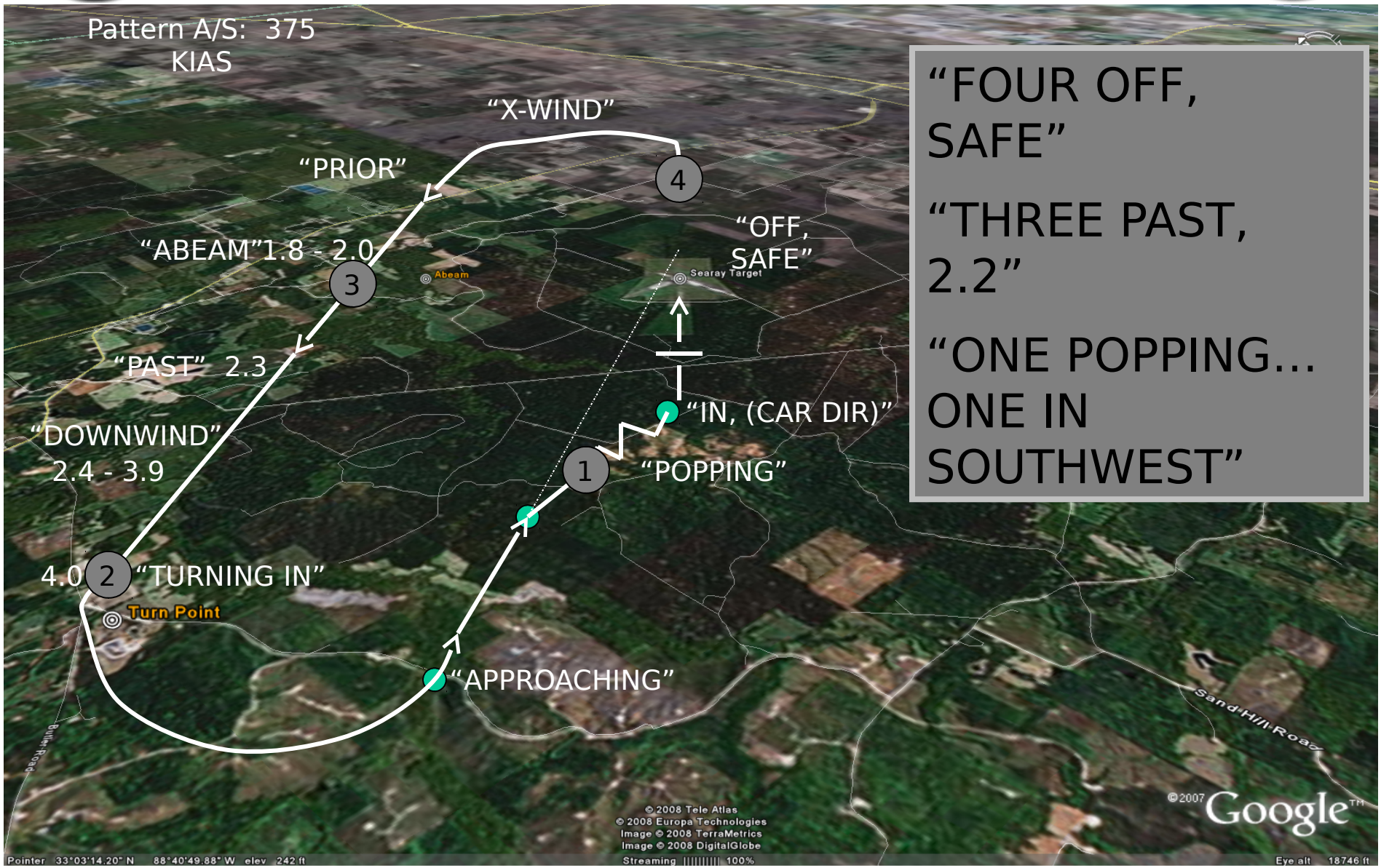
STK 4501

- **PRACTICE CONTINUED:**
  - **30/30 POP**
  - **ROLL IN**
  - **TRACKING/DIVE ANGLE**
  - **CCIP TARGET TRACKING**
  - **ERROR CORRECTIONS**
  - **RELEASE/FIRING PARAMETERS**
  - **DIVE RECOVERY**
  - **ACCURACY**
  - **OFF TARGET RENDEZVOUS**
  - **LANDINGS**

30-30 “MARINE METHOD” POP


Pattern A/S: 375 KIAS
1500’ AGL
1.8-2.0 / 1500’ AGL Descending to 700’ AGL
15°
Abeam
Searay Target
Intercept 10° Weapons Delivery (CCIP)
Over-bank / Roll-in at 1900’ AGL to Apex at 2500’ AGL
3.0 / PUP 30 degrees NU
3.5 / 30 degree RT offset
Rollout heading directly to the target
700’ AGL
MRT / 12 Unit AOA
Turn Point 4.0
700’ AGL
Butler Road
Sand Hill Road
© 2008 Tele Atlas
© 2008 Europa Technologies
Image © 2008 TerraMetrics
Image © 2008 DigitalGlobe
Streaming 100%
© 2007 Google
Pointer 33°03'14.20" N 88°40'49.88" W elev 242 ft
Eye alt 18746 ft

INTERVAL SPACING / COMM



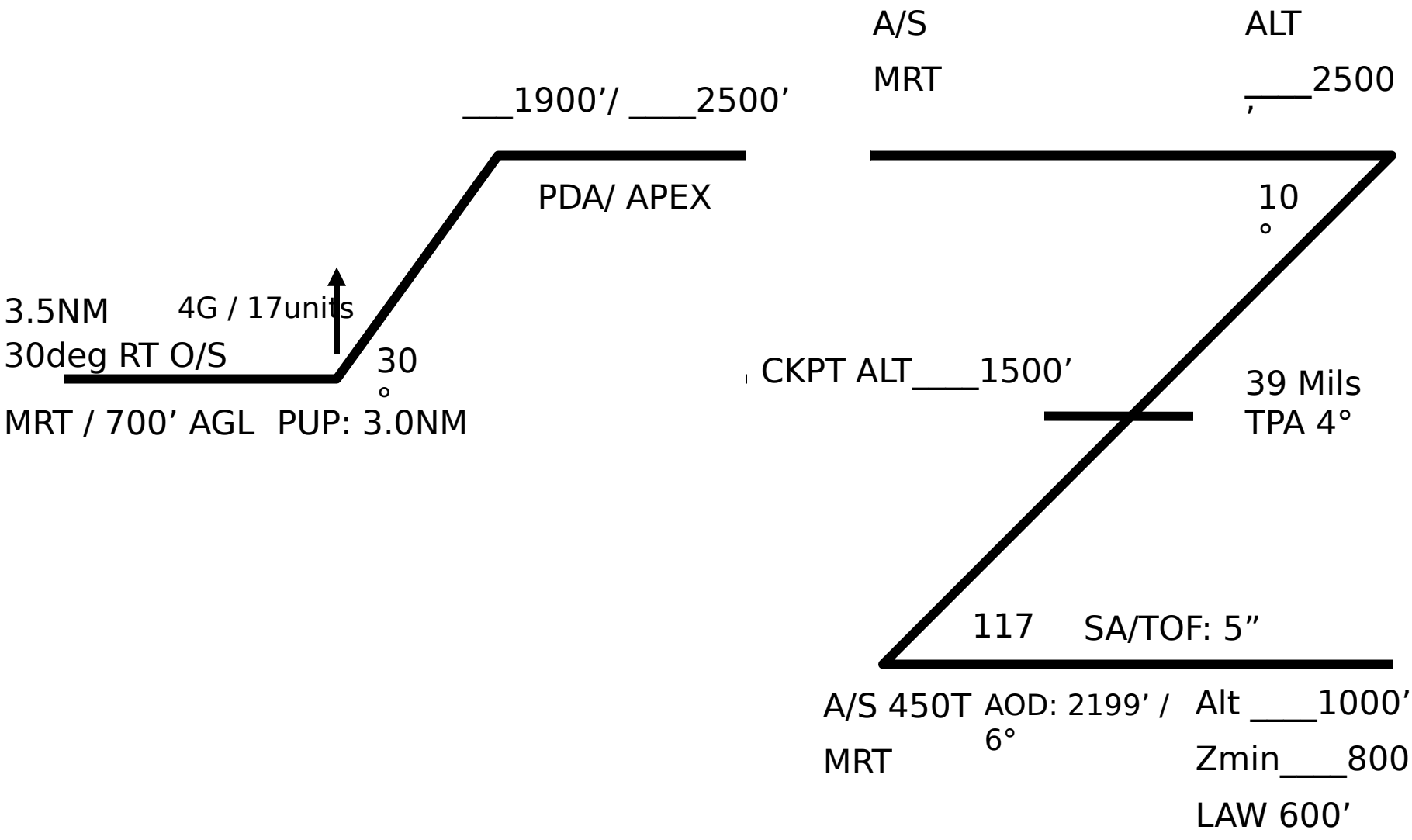
"FOUR OFF, SAFE"

"THREE PAST, 2.2"

"ONE POPPING… ONE IN SOUTHWEST"

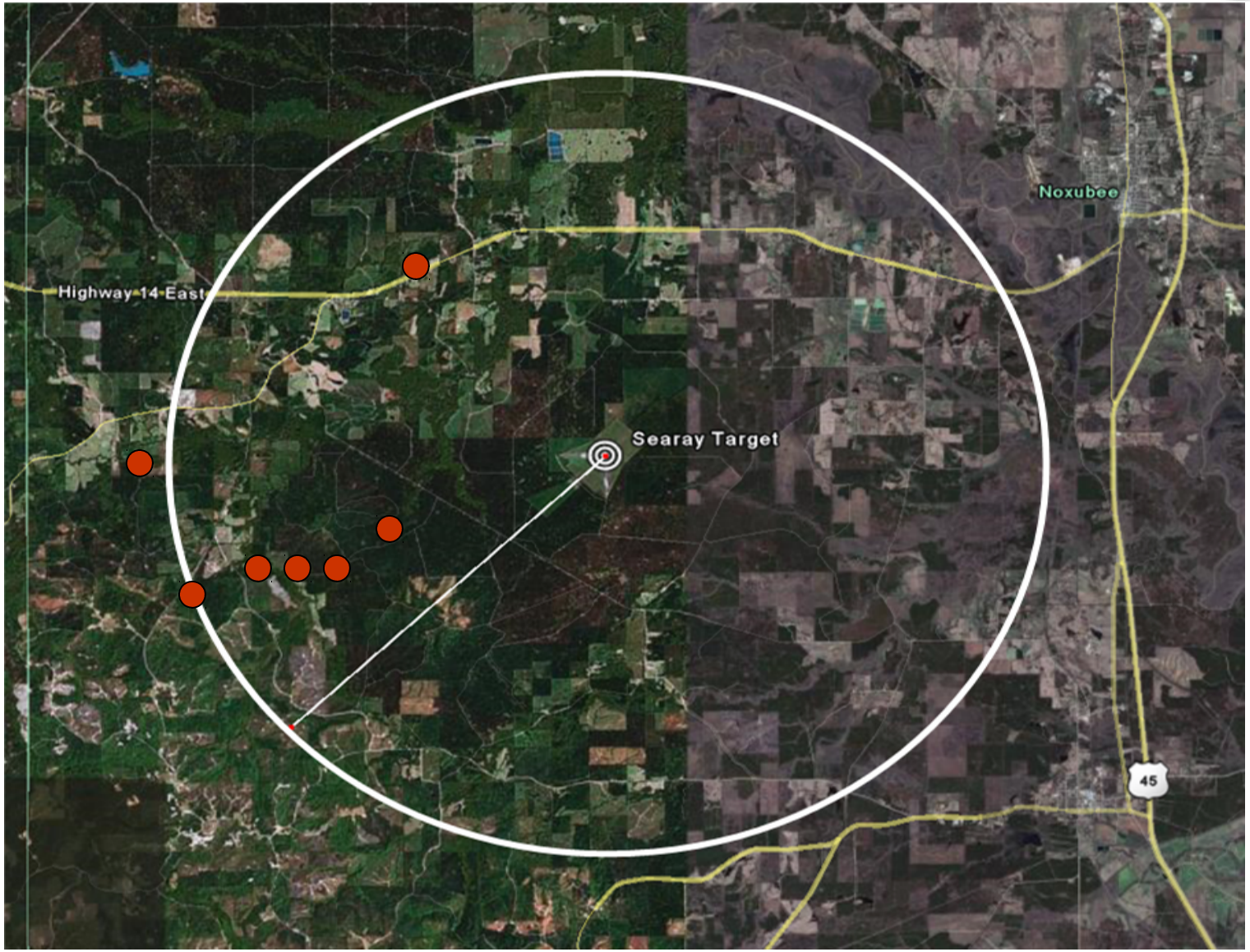
30-30 Pop Z Diagram
MARINE METHOD

STK 4501



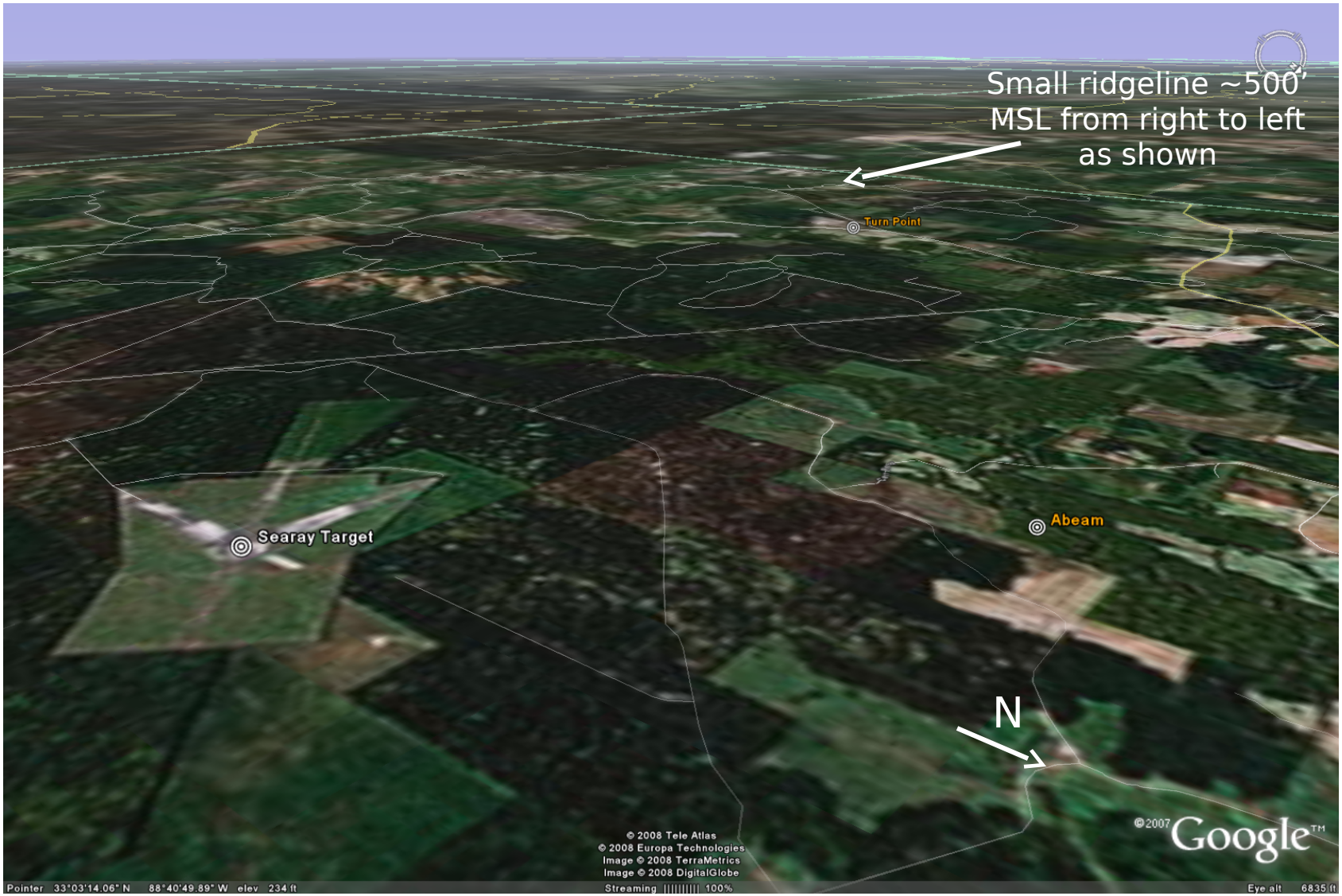
TOP-DOWN VIEW

STK 4501



OUTBOUND

STK 4501



BLOCK MIF

STK 4501

Block MIF

CTS REF	MANEUVER	STK4501
1	General Knowledge/Procedures	4+
2	Emergency Procedures	4
3	Headwork/Situational Awareness	3+
4	Basic Airwork	4+
5	Mission Planning/Briefing/ Debriefing	4+
6	Communications	4+
7	Ground Operations	4+
8	Flight Admin	4+
9	Tactical Admin	4+
30 10	Takeoff	4+
11	Rendezvous	4+
32	Formation Wing	4+
49	Mach Run	4+
49	30-30 Pop	3+
49	Roll-In	4+
49	Tracking/Dive Angle	4
49	CCIP Target Tracking	4
49	Error Corrections	4+
49	Release/Firing Parameters	4+
49	Dive Recovery	4+
49	Accuracy	3
50	Off-Target Rendezvous	4+
23	Landings	4+

Emergencies

STK 4501

- WX/TIMING NO-GO
- FALL OUT PLAN / ABORTS
- SINGLE RADIO/NORDO/ ICS FAIL
- RWY DEP / GND EJECTION
- LOSS OF NAVAIDS
- LOST SIGHT/LOST INTERVAL
- SYSTEM FAILURES
- LCLS
- DISORIENTATION
- BIRD STRIKE/ MIDAIR
- EJECTION
- SAR PROCEDURES
- INTERLOPER
- LAME DUCK/REJOIN PLAN
- SIMO RUN
- TACTICAL ABORT CRITERIA
- TGT FIXATION
- LOW PULLOUT
- OVERSTRESS
- CONT. PROB IN DIVE
- UNDERRUN
- HUNG ORDNANCE
- AIRCREW COORDINATION
- ORM/TTO
- BETS

STANDARD DEBRIEFING FORMAT

STK 4501

- THE FLIGHT LEAD OR PILOT-IN-COMMAND IS RESPONSIBLE FOR ENSURING ALL FLIGHT OR CREWMEMBERS ARE THOUROUGHLY DEBRIEFED ON THE CONDUCT OF THE MISSION UTILIZING THE "S-P-B-E-MS-LL" FORMAT OUTLINED BELOW.

I. SAFETY
II. PLANNING
III. BRIEF
IV. EXECUTION
V. MISSION SUCCESS
VI. LESSONS LEARNED